

The pdfcolparallel package

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Abstract

This packages fixes bugs in `parallel` and improves color support by using several color stacks that are provided by pdfTeX since version 1.40.

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*Please report any issues at <https://github.com/ho-tex/oberdiek/issues>

1 Usage

```
\usepackage{pdfcolparallel}
```

The package `pdfcolparallel` loads package `parallel` [1] and redefines some macros to fix bugs.

If color stacks are available then package `parallel` is further patched to support them.

1.1 Option `rulebetweencolor`

Package `pdfcolparallel` also fixes the color for the rule between columns. Default color is `\normalcolor`. But this can be changed by using option `rulebetweencolor` for `\setkeys{parallel}` (see package `keyval`). The option takes a color specification as value. If the value is empty, then the default (`\normalcolor`) is used. Examples:

```
\setkeys{parallel}{rulebetweencolor=blue},
\setkeys{parallel}{rulebetweencolor={red}},
\setkeys{parallel}{rulebetweencolor={}}, % \normalcolor is used
\setkeys{parallel}{rulebetweencolor=[rgb]{1,0,.5}}
```

1.2 Future

If there will be a new version of package `parallel` that adds support for color stacks, then this package may become obsolete.

2 Implementation

2.1 Identification

```
1 (*package)
2 \NeedsTeXFormat{LaTeX2e}
3 \ProvidesPackage{pdfcolparallel}%
4 [2016/05/16 v1.4 Color stacks support for parallel (HO)]%
```

2.2 Load and fix package `parallel`

Package `parallel` is loaded. Before options of package `pdfcolparallel` are passed to package `parallel`.

```
5 \DeclareOption*{%
6   \PassOptionsToPackage{\CurrentOption}{parallel}%
7 }
8 \ProcessOptions\relax
9 \RequirePackage{parallel}[2003/04/13]
10 \RequirePackage{infwarerr}[2007/09/09]
```

```
\pcp@ColorPatch
```

```
11 \begingroup\expandafter\expandafter\expandafter\endgroup
12 \expandafter\ifx\csname currentgrouplevel\endcsname\relax
13   \def\pcp@ColorPatch{%
14   \else
15     \def\pcp@ColorPatch{%
16       \@ifundefined{set@color}{%
17         \gdef\pcp@ColorPatch{%
18           }{%
19             \gdef\pcp@ColorPatch{%
20               \gdef\pcp@ColorResets{%
21                 \bgroup
22                 \aftergroup\pcp@ColorResets
23                 \aftergroup\egroup
```

```

24     \let\pcp@OrgSetColor\set@color
25     \let\set@color\pcp@SetColor
26     \edef\pcp@GroupLevel{\the\currentgrouplevel}%
27   }%
28 }%
29 \pcp@ColorPatch
30 }%

```

\pcp@SetColor

```

31 \def\pcp@SetColor{%
32   \ifnum\pcp@GroupLevel=\currentgrouplevel
33     \let\pcp@OrgAfterGroup\aftergroup
34     \def\aftergroup{%
35       \g@addto@macro\pcp@ColorResets
36     }%
37     \pcp@OrgSetColor
38     \let\aftergroup\pcp@OrgAfterGroup
39   \else
40     \pcp@OrgSetColor
41   \fi
42 }%
43 \fi

```

\pcp@CmdCheckRedef

```

44 \def\pcp@CmdCheckRedef#1{%
45   \begingroup
46   \def\pcp@cmd{#1}%
47   \afterassignment\pcp@CmdDo
48   \long\def\reserved@a
49 }
50 \def\pcp@CmdDo{%
51   \expandafter\ifx\pcp@cmd\reserved@a
52   \else
53     \edef\x*{\expandafter\string\pcp@cmd}%
54     \@PackageWarningNoLine{pdfcolparallel}{%
55       Command \x* has changed.\MessageBreak
56       Supported versions of package `parallel':\MessageBreak
57       \space\space 2003/04/13\MessageBreak
58       The redefinition of \x* may\MessageBreak
59       not behave correctly depending on the changes%
60     }%
61   \fi
62   \expandafter\endgroup
63   \expandafter\def\pcp@cmd
64 }
65 \def\pcp@SwitchStack#1#2{}
66 \def\pcp@SetCurrent#1{}

```

\ParallelText

```

67 \pcp@CmdCheckRedef\ParallelText{%
68   \everypar{}%
69   \@restorepar
70   \begingroup
71   \hbadness=3000 %
72   \let\footnote=\ParallelFootnote
73   \ParallelWhichBox=0 %
74   \global\setbox\ParallelLBox=\vbox\bgroup
75   \hsize=\ParallelLWidth
76   \aftergroup\ParallelAfterText
77   \begingroup
78   \afterassignment\ParallelCheckOpenBrace

```

```

79     \let\x=%
80 }{%
81 \everypar{}%
82 \@restorepar
83 \@nobreakfalse
84 \begingroup
85 \hbadness=3000 %
86 \let\footnote=\ParallelFootnote
87 \ParallelWhichBox=0 %
88 \global\setbox\ParallelLBox=\vbox\bgroup
89 \hsize=\ParallelLWidth
90 \linewidth=\ParallelLWidth
91 \pcp@SwitchStack{Left}\ParallelLBox
92 \aftergroup\ParallelAfterText
93 \pcp@ColorPatch
94 \begingroup
95 \afterassignment\ParallelCheckOpenBrace
96 \let\x=%
97 }

```

\ParallelRText

```

98 \pcp@CmdCheckRedef\ParallelRText{%
99 \everypar{}%
100 \@restorepar
101 \begingroup
102 \hbadness=3000 %
103 \ifnum\ParallelFNMode=\@ne
104 \let\footnote=\ParallelRFootnote
105 \else
106 \let\footnote=\ParallelFootnote
107 \fi
108 \ParallelWhichBox=\@ne
109 \global\setbox\ParallelRBox=\vbox\bgroup
110 \hsize=\ParallelRWidth
111 \aftergroup\ParallelAfterText
112 \begingroup
113 \afterassignment\ParallelCheckOpenBrace
114 \let\x=%
115 }{%
116 \everypar{}%
117 \@restorepar
118 \@nobreakfalse
119 \begingroup
120 \hbadness=3000 %
121 \ifnum\ParallelFNMode=\@ne
122 \let\footnote=\ParallelRFootnote
123 \else
124 \let\footnote=\ParallelFootnote
125 \fi
126 \ParallelWhichBox=\@ne
127 \global\setbox\ParallelRBox=\vbox\bgroup
128 \hsize=\ParallelRWidth
129 \linewidth=\ParallelRWidth
130 \pcp@SwitchStack{Right}\ParallelRBox
131 \aftergroup\ParallelAfterText
132 \pcp@ColorPatch
133 \begingroup
134 \afterassignment\ParallelCheckOpenBrace
135 \let\x=%
136 }

```

\ParallelParTwoPages

```

137 \pcp@CmdCheckRedef\ParallelParTwoPages{%
138   \ifnum\ParallelBoolVar=\@ne
139     \par
140     \begingroup
141       \global\ParallelWhichBox=\@ne
142       \newpage
143       \vbadness=10000 %
144       \vfuzz=3ex %
145       \splittopskip=\z@skip
146       \loop%
147         \ifnum\ParallelBoolVar=\@ne%
148           \ifnum\ParallelWhichBox=\@ne
149             \ifvoid\ParallelLBox
150               \mbox{} %
151               \newpage
152             \else
153               \global\ParallelWhichBox=\z@
154             \fi
155           \else
156             \ifvoid\ParallelRBox
157               \mbox{} %
158               \newpage
159             \else
160               \global\ParallelWhichBox=\@ne
161             \fi
162           \fi
163         \ifnum\ParallelWhichBox=\z@
164           \ifodd\thepage
165             \mbox{} %
166             \newpage
167           \fi
168           \hbox to\textwidth{%
169             \vbox{\vsplit\ParallelLBox to.98\textheight}%
170             }%
171         \else
172           \ifodd\thepage\relax
173         \else
174           \mbox{} %
175           \newpage
176         \fi
177         \hbox to\textwidth{%
178           \vbox{\vsplit\ParallelRBox to.98\textheight}%
179         }%
180         \fi
181         \vspace*{\fill}%
182         \newpage
183       \fi
184     \ifvoid\ParallelLBox
185     \ifvoid\ParallelRBox
186       \global\ParallelBoolVar=\z@
187     \fi
188   \fi
189   \ifnum\ParallelBoolVar=\@ne
190     \repeat
191   \par
192 \endgroup
193 \fi
194 }{%

```

Additional fixes:

- Unnecessary white space removed.
- `\ifodd\thepage` changed to `\ifodd\value{page}`.

```

195 \ifnum\ParallelBoolVar=\@ne
196 \par
197 \begingroup
198 \global\ParallelWhichBox=\@ne
199 \newpage
200 \vbadness=10000 %
201 \vfuzz=3ex %
202 \splittopskip=\z@skip
203 \loop%
204 \ifnum\ParallelBoolVar=\@ne%
205 \ifnum\ParallelWhichBox=\@ne
206 \ifvoid\ParalleLLBox
207 \mbox{}%
208 \newpage
209 \else
210 \global\ParallelWhichBox=\z@
211 \fi
212 \else
213 \ifvoid\ParalleRRBox
214 \null
215 \newpage
216 \else
217 \global\ParallelWhichBox=\@ne
218 \fi
219 \fi
220 \ifnum\ParallelWhichBox=\z@
221 \ifodd\value{page}%
222 \null
223 \newpage
224 \fi
225 \hbox to\textwidth{%
226 \pcp@SetCurrent{Left}%
227 \setbox\z@=\vsplit\ParalleLLBox to.98\textheight
228 \vbox to.98\textheight{%
229 \@texttop
230 \unvbox\z@
231 \@textbottom
232 }%
233 }%
234 \else
235 \ifodd\value{page}%
236 \else
237 \mbox{}%
238 \newpage
239 \fi
240 \hbox to\textwidth{%
241 \pcp@SetCurrent{Right}%
242 \setbox\z@=\vsplit\ParalleRRBox to.98\textheight
243 \vbox to.98\textheight{%
244 \@texttop
245 \unvbox\z@
246 \@textbottom
247 }%
248 }%
249 \fi
250 \vspace*{\fill}%
251 \newpage
252 \fi
253 \ifvoid\ParalleLLBox
254 \ifvoid\ParalleRRBox
255 \global\ParallelBoolVar=\z@
256 \fi

```

```

257     \fi
258     \ifnum\ParallelBoolVar=\@ne
259     \repeat
260     \par
261     \endgroup
262     \pcp@SetCurrent{}%
263 \fi
264 }

```

2.3 Color stack support

```

265 \RequirePackage{pdfcol}[2007/12/12]
266 \ifpdfcolAvailable
267 \else
268   \PackageInfo{pdfcolparallel}{%
269     Loading aborted, because color stacks are not available%
270   }%
271   \expandafter\endinput
272 \fi

273 \pdfcolInitStack{pcp@Left}
274 \pdfcolInitStack{pcp@Right}

```

\pcp@Box

```
275 \newbox\pcp@Box
```

\pcp@SwitchStack

```

276 \def\pcp@SwitchStack#1#2{%
277   \pdfcolSwitchStack{pcp@#1}%
278   \global\setbox\pcp@Box=\vbox to 0pt{%
279     \pdfcolSetCurrentColor
280   }%
281   \aftergroup\pcp@FixBox
282   \aftergroup#2%
283 }

```

\pcp@FixBox

```

284 \def\pcp@FixBox#1{%
285   \global\setbox#1=\vbox{%
286     \unvbox\pcp@Box
287     \unvbox#1%
288   }%
289 }

```

\pcp@SetCurrent

```

290 \def\pcp@SetCurrent#1{%
291   \ifx\#1\%
292     \pdfcolSetCurrent{}%
293   \else
294     \pdfcolSetCurrent{pcp@#1}%
295   \fi
296 }

```

2.4 Redefinitions

\ParallelParOnePage

```

297 \pcp@CmdCheckRedef\ParallelParOnePage{%
298   \ifnum\ParallelBoolVar=\@ne
299   \par
300   \begingroup
301     \leftmargin=\z@
302     \rightmargin=\z@

```

```

303 \parskip=\z@skip
304 \parindent=\z@
305 \vbadness=10000 %
306 \vfuzz=3ex %
307 \splittopskip=\z@skip
308 \loop
309 \ifnum\ParallelBoolVar=\@ne
310 \noindent
311 \hbox to\textwidth{%
312 \hskip\ParallelLeftMargin
313 \hbox to\ParallelTextWidth{%
314 \ifvoid\ParallelLBox
315 \hskip\ParallelLWidth
316 \else
317 \ParallelWhichBox=\z@
318 \vbox{%
319 \setbox\ParallelBoxVar
320 =\vsplit\ParallelLBox to\dp\strutbox
321 \unvbox\ParallelBoxVar
322 }%
323 \fi
324 \strut
325 \ifnum\ParallelBoolMid=\@ne
326 \hskip\ParallelMainMidSkip
327 \vrule
328 \else
329 \hss
330 \fi
331 \hss
332 \ifvoid\ParallelRBox
333 \hskip\ParallelRWidth
334 \else
335 \ParallelWhichBox=\@ne
336 \vbox{%
337 \setbox\ParallelBoxVar
338 =\vsplit\ParallelRBox to\dp\strutbox
339 \unvbox\ParallelBoxVar
340 }%
341 \fi
342 }%
343 }%
344 \ifvoid\ParallelLBox
345 \ifvoid\ParallelRBox
346 \global\ParallelBoolVar=\z@
347 \fi
348 \fi%
349 \fi%
350 \ifnum\ParallelBoolVar=\@ne
351 \penalty\interlinepenalty
352 \repeat
353 \par
354 \endgroup
355 \fi
356 }{%
357 \ifnum\ParallelBoolVar=\@ne
358 \par
359 \begingroup
360 \leftmargin=\z@
361 \rightmargin=\z@
362 \parskip=\z@skip
363 \parindent=\z@
364 \vbadness=10000 %

```



```

365 \vfuzz=3ex %
366 \splittopskip=\z@skip
367 \loop
368 \ifnum\ParallelBoolVar=\@ne
369 \noindent
370 \hbox to\textwidth{%
371 \hskip\ParallelLeftMargin
372 \hbox to\ParallelTextWidth{%
373 \ifvoid\ParallelLBox
374 \hskip\ParallelLWidth
375 \else
376 \pcp@SetCurrent{Left}%
377 \ParallelWhichBox=\z@
378 \vbox{%
379 \setbox\ParallelBoxVar
380 =\vsplit\ParallelLBox to\dp\strutbox
381 \unvbox\ParallelBoxVar
382 }%
383 \fi
384 \strut
385 \ifnum\ParallelBoolMid=\@ne
386 \hskip\ParallelMainMidSkip
387 \begingroup
388 \pcp@RuleBetweenColor
389 \vrule
390 \endgroup
391 \else
392 \hss
393 \fi
394 \hss
395 \ifvoid\ParallelRBox
396 \hskip\ParallelRWidth
397 \else
398 \pcp@SetCurrent{Right}%
399 \ParallelWhichBox=\@ne
400 \vbox{%
401 \setbox\ParallelBoxVar
402 =\vsplit\ParallelRBox to\dp\strutbox
403 \unvbox\ParallelBoxVar
404 }%
405 \fi
406 }%
407 }%
408 \ifvoid\ParallelLBox
409 \ifvoid\ParallelRBox
410 \global\ParallelBoolVar=\z@
411 \fi
412 \fi%
413 \fi%
414 \ifnum\ParallelBoolVar=\@ne
415 \penalty\interlinepenalty
416 \repeat
417 \par
418 \endgroup
419 \pcp@SetCurrent{}%
420 \fi
421 }

```

\pcp@RuleBetweenColorDefault

```

422 \def\pcp@RuleBetweenColorDefault{%
423 \normalcolor
424 }

```

`\pcp@RuleBetweenColor`

```
425 \let\pcp@RuleBetweenColor\pcp@RuleBetweenColorDefault
426 \RequirePackage{keyval}
427 \define@key{parallel}{rulebetweencolor}{%
428   \edef\pcp@temp{#1}%
429   \ifx\pcp@temp\@empty
430     \let\pcp@RuleBetweenColor\pcp@RuleBetweenColorDefault
431   \else
432     \edef\pcp@temp{%
433       \noexpand\@ifnextchar{%
434         \def\noexpand\pcp@RuleBetweenColor{%
435           \noexpand\color\pcp@temp
436         }%
437         \noexpand\pcp@GobbleNil
438       }{%
439         \def\noexpand\pcp@RuleBetweenColor{%
440           \noexpand\color{\pcp@temp}%
441         }%
442         \noexpand\pcp@GobbleNil
443       }%
444       \pcp@temp\noexpand\@nil
445     }%
446   \pcp@temp
447 \fi
448 }
```

`\pcp@GobbleNil`

```
449 \long\def\pcp@GobbleNil#1\@nil{}
450 </package>
```

3 Test

The test file is a modified version of the file that Alexander Hirsch has posted in [de.comp.text.tex](https://groups.google.com/group/de.comp.text.tex/msg/6a759cf33bb071a5): “[parallel.sty und farbiger Text](https://groups.google.com/group/de.comp.text.tex/msg/6a759cf33bb071a5)”¹

```
451 (*test1)
452 \AtEndDocument{%
453   \typeout{}%
454   \typeout{*****}%
455   \typeout{*** \space Check the PDF file manually! \space ***}%
456   \typeout{*****}%
457   \typeout{}%
458 }
459 \documentclass{article}
460 \usepackage{xcolor}
461 \usepackage{pdfcolparallel}[2016/05/16]
462
463 \begin{document}
464   \color{green}%
465   Green%
466   \begin{Parallel}{0.47\textwidth}{0.47\textwidth}%
467     \ParalleLLText{%
468       \textcolor{red}{%
469         Ein Absatz, der sich ueber zwei Zeilen erstrecken soll. %
470         Ein Absatz, der sich ueber zwei Zeilen erstrecken soll.%
471       }%
472     }%
473     \ParallelRText{%
474       \textcolor{blue}{%

```

¹Url: <https://groups.google.com/group/de.comp.text.tex/msg/6a759cf33bb071a5>

```

475     Ein Absatz, der sich ueber zwei Zeilen erstrecken soll. %
476     Ein Absatz, der sich ueber zwei Zeilen erstrecken soll.%
477   }%
478 }%
479 \ParallelPar
480 \ParallellText{%
481   Default %
482   \color{red}%
483   Ein Absatz, der sich ueber zwei Zeilen erstrecken soll. %
484   Ein Absatz, der sich ueber zwei Zeilen erstrecken soll.%
485 }%
486 \ParallelRText{%
487   Default %
488   \color{blue}%
489   Ein Absatz, der sich ueber zwei Zeilen erstrecken soll. %
490   Ein Absatz, der sich ueber zwei Zeilen erstrecken soll.%
491 }%
492 \ParallelPar
493 \ParallellText{%
494   \begin{enumerate}%
495     \item left text, left text, left text, left text, %
496       left text, left text, left text, left text,%
497     \item left text, left text, left text, left text, %
498       left text, left text, left text, left text.%
499   \end{enumerate}%
500 }%
501 \ParallelRText{%
502   \begin{enumerate}%
503     \item right text, right text, right text, right text, %
504       right text, right text, right text, right text.%
505     \item right text, right text, right text, right text, %
506       right text, right text, right text, right text.%
507   \end{enumerate}%
508 }%
509 \end{Parallel}%
510 \begin{Parallel}[p]{\textwidth}{\textwidth}%
511   \ParallellText{%
512     \textcolor{red}{%
513       Ein Absatz, der sich ueber zwei Zeilen erstrecken soll. %
514       Ein Absatz, der sich ueber zwei Zeilen erstrecken soll. %
515       Foo bar bla bla bla.%
516     }%
517     \par
518     Und noch ein Absatz.%
519   }%
520   \ParallelRText{%
521     \textcolor{blue}{%
522       Ein Absatz, der sich ueber zwei Zeilen erstrecken soll. %
523       Ein Absatz, der sich ueber zwei Zeilen erstrecken soll. %
524       Foo bar bla bla bla.%
525     }%
526   }%
527 \end{Parallel}%
528 \begin{Parallel}[p]{\textwidth}{\textwidth}%
529   \ParallellText{%
530     \rule{1pt}{.98\textheight}\Huge g%
531   }%
532   \ParallelRText{%
533     \rule{1pt}{.98\textheight}y%
534   }%
535 \end{Parallel}%
536 Green%

```

537 \end{document}
538 </test1>

4 Installation

4.1 Download

Package. This package is available on CTAN²:

[CTAN:macros/latex/contrib/oberdiek/pdfcolparallel.dtx](#) The source file.

[CTAN:macros/latex/contrib/oberdiek/pdfcolparallel.pdf](#) Documentation.

Bundle. All the packages of the bundle ‘oberdiek’ are also available in a TDS compliant ZIP archive. There the packages are already unpacked and the documentation files are generated. The files and directories obey the TDS standard.

[CTAN:install/macros/latex/contrib/oberdiek.tds.zip](#)

TDS refers to the standard “A Directory Structure for T_EX Files” ([CTAN:tds/tds.pdf](#)). Directories with `texmf` in their name are usually organized this way.

4.2 Bundle installation

Unpacking. Unpack the `oberdiek.tds.zip` in the TDS tree (also known as `texmf` tree) of your choice. Example (linux):

```
unzip oberdiek.tds.zip -d ~/texmf
```

Script installation. Check the directory `TDS:scripts/oberdiek/` for scripts that need further installation steps. Package `attachfile2` comes with the Perl script `pdfatfi.pl` that should be installed in such a way that it can be called as `pdfatfi`. Example (linux):

```
chmod +x scripts/oberdiek/pdfatfi.pl  
cp scripts/oberdiek/pdfatfi.pl /usr/local/bin/
```

4.3 Package installation

Unpacking. The `.dtx` file is a self-extracting docstrip archive. The files are extracted by running the `.dtx` through plain T_EX:

```
tex pdfcolparallel.dtx
```

TDS. Now the different files must be moved into the different directories in your installation TDS tree (also known as `texmf` tree):

```
pdfcolparallel.sty      → tex/latex/oberdiek/pdfcolparallel.sty  
pdfcolparallel.pdf     → doc/latex/oberdiek/pdfcolparallel.pdf  
test/pdfcolparallel-test1.tex → doc/latex/oberdiek/test/pdfcolparallel-test1.tex  
pdfcolparallel.dtx     → source/latex/oberdiek/pdfcolparallel.dtx
```

If you have a `docstrip.cfg` that configures and enables docstrip’s TDS installing feature, then some files can already be in the right place, see the documentation of docstrip.

4.4 Refresh file name databases

If your T_EX distribution (teT_EX, mikT_EX, ...) relies on file name databases, you must refresh these. For example, teT_EX users run `texhash` or `mktextlsr`.

²<http://ctan.org/pkg/pdfcolparallel>

4.5 Some details for the interested

Unpacking with L^AT_EX. The .dtx chooses its action depending on the format:

plain T_EX: Run docstrip and extract the files.

L^AT_EX: Generate the documentation.

If you insist on using L^AT_EX for docstrip (really, docstrip does not need L^AT_EX), then inform the autodetect routine about your intention:

```
latex \let\install=y\input{pdfcolparallel.dtx}
```

Do not forget to quote the argument according to the demands of your shell.

Generating the documentation. You can use both the .dtx or the .drv to generate the documentation. The process can be configured by the configuration file ltxdoc.cfg. For instance, put this line into this file, if you want to have A4 as paper format:

```
\PassOptionsToClass{a4paper}{article}
```

An example follows how to generate the documentation with pdfL^AT_EX:

```
pdflatex pdfcolparallel.dtx
makeindex -s gind.ist pdfcolparallel.idx
pdflatex pdfcolparallel.dtx
makeindex -s gind.ist pdfcolparallel.idx
pdflatex pdfcolparallel.dtx
```

5 Catalogue

The following XML file can be used as source for the [T_EX Catalogue](#). The elements `caption` and `description` are imported from the original XML file from the Catalogue. The name of the XML file in the Catalogue is `pdfcolparallel.xml`.

```
539 (*catalogue)
540 <?xml version='1.0' encoding='us-ascii'?>
541 <!DOCTYPE entry SYSTEM 'catalogue.dtd'>
542 <entry datestamp='$Date$' modifier='$Author$' id='pdfcolparallel'>
543   <name>pdfcolparallel</name>
544   <caption>Fix colour problems in package 'parallel'.</caption>
545   <authorref id='auth:oberdiek'/>
546   <copyright owner='Heiko Oberdiek' year='2007,2008,2010'/>
547   <license type='lppl1.3'/>
548   <version number='1.4'/>
549   <description>
550     Since version 1.40 pdfTeX supports colour stacks.
551     This package uses them to fix colour problems in
552     package <xref refid='parallel'>parallel</xref>.
553   <p/>
554   The package is part of the <xref refid='oberdiek'>oberdiek</xref>
555   bundle.
556 </description>
557 <documentation details='Package documentation'
558   href='ctan:/macros/latex/contrib/oberdiek/pdfcolparallel.pdf'/>
559 <ctan file='true' path='/macros/latex/contrib/oberdiek/pdfcolparallel.dtx'/>
560 <miktex location='oberdiek'/>
561 <texlive location='oberdiek'/>
562 <install path='/macros/latex/contrib/oberdiek/oberdiek.tds.zip'/>
563 </entry>
564 </catalogue>
```

6 References

- [1] Matthias Eckermann: *The parallel-package*; 2003/04/13;
CTAN:macros/latex/contrib/parallel/.
- [2] Heiko Oberdiek: *The pdfcol package*; 2007/09/09;
CTAN:macros/latex/contrib/oberdiek/pdfcol.pdf.

7 History

[2007/09/09 v1.0]

- First version.

[2007/12/12 v1.1]

- Adds patch for setting `\linewidth` to fix bug in package `parallel`.
- Package `parallel` is also fixed if color stacks are not available.
- Bug fix, switched stacks now initialized with current color.
- Fix for package `parallel`: `\raggedbottom` is respected.

[2008/08/11 v1.2]

- Code is not changed.
- URLs updated.

[2010/01/11 v1.3]

- Option ‘`rulebetweencolor`’ added.

[2016/05/16 v1.4]

- Documentation updates.

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Numbers written in *italic* refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; plain numbers refer to the code lines where the entry is used.

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